

CHARLOTTE HARBOR AND COASTAL AREA

262136081512801 BIG HICKORY PASS BRIDGE NEAR ESTERO ISLAND, FL

LOCATION.--Lat 26° 21' 36", long 81° 51' 28", in sec.24, T.47S., R.24 E, Lee County, Bonita Springs Quadrangle, Hydrologic Unit 03090204. located 20 ft from south bank of Big Hickory Pass near the bridge fenders on Estero Blvd, approximately 0.2 mi west of the intersection of Broadway and Hogue Channel, 0.8 mi east of the Gulf of Mexico, 2 mi north of Bonita Springs.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 2002 to September 2005.

GAGE.--Satellite data collection platform with pressure transducer and acoustic doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929. See REMARKS.

REMARKS.--Records fair. Daily values not published for this site. Gage height for the period January 2002 to September 2004 was measured with a water-stage encoder. Discharge and gage height 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge 4,710 ft³/s Dec. 26, 2004; maximum negative, 11,900 ft³/s Apr. 12, 2004.

GAGE HEIGHT: Maximum gage height, 3.51 ft July 10, 2005; minimum, -2.75 ft Nov. 4, 2002.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge 4,710 ft³/s Dec. 26; maximum negative, 7,130 ft³/s July 10.

GAGE HEIGHT: Maximum gage height, 3.51 ft, July 10; minimum -1.47 ft, Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to September 2005.

INSTRUMENTATION.--Water-quality monitor with top sensor. See REMARKS.

REMARKS.--Salinity record rated excellent except for: 10/29-30, 12/20, 1/14-16, 6/17, 7/22-23, 7/26-8/11, and 8/13-9/30 when data are missing; from 1/21-2/15, 5/8-27, 6/4-7/21 which are rated good; and from 2/16-26 which are rated fair. Temperature record rated good. Salinity and temperature sensors located at -4.5 ft NGVD (TOP) and -6.5 ft

(BOTTOM), bottom discontinued August 13, 2004. Salinity and temperature 15 minute data are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP) : Maximum recorded, 38.7 ppt May 17-18, 2002, but may have been higher during period of missing record; minimum recorded, 7.9 ppt Oct. 1, 2003, but may have been lower during period of missing record.

SALINITY (BOTTOM): Maximum recorded, 38.0 ppt June 6, 2002, but may have been higher during period of missing record; minimum recorded, 11.3 ppt Oct. 1, 2003, but may have been lower during period of missing record. Discontinued for 2005 Water Year.

TEMPERATURE (TOP): Maximum recorded, 34.5°C July 29, 2005, but may have been higher during period of missing record; minimum recorded 13.3°C Jan. 9, 2002, but may have been lower during period of missing record.

TEMPERATURE (BOTTOM): Maximum recorded, 34.1°C July 20, 2002 but may have been higher during period of missing record; minimum recorded, 13.4°C Jan. 9, 2002, but may have been lower during period of missing record. Discontinued for 2005 Water Year.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 34.8 ppt on multiple days, but may have been higher during period of missing record; minimum recorded, 9.7 ppt June 14, but may have been lower during period of missing record.

TEMPERATURE (TOP): Maximum recorded, 34.5°C July 29, but may have been higher during period of missing record; minimum recorded, 13.4°C Dec.16, but may have been lower during period of missing record.